

Claims:

- 5 1. A computerized television apparatus comprising:
- a computing device for generating a first display
signal, said computing device having an output for
releasing said first display signal;
 - a video path having
 - 10 a) a first input coupled to said computing device
for receiving the first display signal;
 - b) a second input for receiving a second display
signal derived from a television signal;
 - c) an output for releasing a third display signal;
 - 15 - a display unit having an input coupled to the output
of said video path, said display unit being operative
for displaying a display image derived from said third
display signal, said display unit having a given
dimension, said display unit being characterized in
20 having a dot pitch in an range from about 0.0008528
times the given dimension to about 0.00125 times the
given dimension.
2. A computerized television apparatus as defined in claim 1,
25 wherein said second display signal bypasses said computing
device.
3. A computerized television apparatus as defined in claim 2,
said computerized television apparatus further comprising:

- a first coupling member adapted to receive a television signal, said first coupling member being coupled to the second input of said video path;
- a second coupling member coupled to said computing device, said second coupling member being adapted to receive a signal indicative of information data elements, said information data elements being suitable for use by said computing device.

- 10 4. A computerized television apparatus as defined in claim 3,
wherein said second coupling member includes an Ethernet
controller unit.
- 15 5. A computerized television apparatus as defined in claim 3,
wherein said second coupling member includes a modem unit.
- 20 6. A computerized television apparatus as defined in claim 2,
wherein said display unit comprises a display surface, said
given dimension being a measurement of the display surface.
- 25 7. A computerized television apparatus as defined in claim 4,
wherein the display surface is substantially rectangular,
said given dimension being a diagonal measurement of the
display surface.
- 30 8. A computerized television apparatus as defined in claim 1,
wherein said video path comprises a display controller,
said third display signal being indicative of a display
signal selected from the group consisting of the first
display signal and the second display signal.

9. A computerized television apparatus as defined in claim 1, wherein said video path comprises a switch, wherein said switch is a video mixer.

5 10. A computerized television apparatus as defined in claim 1, wherein said video path comprises a processing unit, said processing unit being operative to process the first display signal and the second display signal to derive the third display signal, the third display signal being
10 indicative of a display signal that is a combination of the first display signal and the second display signal.

11. A computerized television apparatus as defined in claim 1, wherein said computing device comprises:

- 15
- a central processor;
 - a memory unit coupled to said central processor, said memory unit comprising at least one program element suitable to be executed by said central processor.

20 12. A computerized television apparatus as defined in claim 8, wherein said program element is operative for generating a display signal indicative of a web page when executing on said central processor.

25 13. A computerized television apparatus as defined in claim 1, wherein said display unit comprises a cathode ray tube.

14. A computerized television apparatus comprising a fast boot-up computing device for generating a display signal, said
30 fast boot-up computing device having an output for

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releasing said display signal, said fast boot-up computing device including:

- a plurality of hardware elements;
- an initial program loader unit comprising a data structure including a plurality of data elements associated to respective hardware elements;
- a plurality of program elements associated to respective hardware elements, said program elements being adapted to cooperate with selected ones of the hardware elements;

said fast boot-up computing device being operative to process the initial program loader unit to invoke the program elements associated to the respective data elements, said fast boot-up computing device being operative to boot-up said computerized television apparatus.

15.A computerized television apparatus as defined in claim 14, wherein said plurality of hardware elements form part of a hardware platform, said fast boot-up computing device being operative to boot-up computerized television apparatus without searching said hardware platform.

16.A computerized television apparatus as defined in claim 14, wherein said plurality of data elements is pre-determined.

17.A computerized television apparatus as defined in claim 14, wherein at least one hardware element is selected from the set consisting of a processor, a peripheral device and a memory device.

18. A computerized television apparatus as defined in claim 14, wherein said display signal is a first display signal, said computerized television apparatus further comprising:

- a video path having
 - 5 a) a first input coupled to said computing device for receiving the first display signal;
 - b) a second input for receiving a second display signal derived from a television signal;
 - c) an output for releasing a third display signal;
- a display unit having an input coupled to the output of said video path, said display unit being operative for displaying a display image derived from said third display signal.

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15 19. A computerized television apparatus as defined in claim 18, wherein at least one of said data elements is indicative of a part coupled to said computing device.

20 20. A computerized television apparatus as defined in claim 18, wherein said display unit has a given dimension and is characterized in having a dot pitch in an range from about 0.0008528 times the given dimension to about 0.00125 times the given dimension.

Claims :

1. A computerized television apparatus (2) comprising :

- a computing device (104) for generating a first display signal, said computing device (104) having an output for releasing said first display signal;
- a video path (106) having
 - a) a first input (110) coupled to said computing device (104) for receiving the first display signal;
 - b) a second input (108) for receiving a second display signal derived from a television signal;
 - c) an output (140) for releasing a third display signal;
- a display unit (102) having an input coupled to the output (140) of said video path, said display unit (102) being operative for displaying a display image derived from said third display signal, said display unit (102) having a diagonal viewing dimension (252), said display unit (102) being characterized in having a dot pitch in a range from about 0.0008528 times said diagonal dimension to about 0.001016 times said diagonal dimension.

2. A computerized television apparatus (2) as claimed in claim 1 wherein said display unit (102) is characterized in having a dot pitch in a range from about 0.0008528 times said diagonal dimension (252) to about 0.0009473 times said diagonal dimension (252).

3. A computerized television apparatus (2) as claimed in claim 1 wherein said display unit (102) is

characterized in having a dot pitch of about 0.000862 times said given diagonal dimension (252).

4. A computerized television apparatus (2) as defined in claim 1, wherein said second display signal bypasses said computing device (104).
5. A computerized television apparatus (2) as defined in claim 4, said computerized television apparatus further comprising :
 - a first coupling member (130) adapted to receive a television signal, said first coupling member being coupled to the second input (108) of said video path;
 - a second coupling member (132) coupled to said computing device, said second coupling member (132) being adapted to receive a signal indicative of information data elements, said information data elements being suitable for use by said computing device (104).
6. A computerized television apparatus as defined in claim 5, wherein said second coupling member (132) includes an Ethernet controller unit.
7. A computerized television apparatus as defined in claim 5, wherein said second coupling member (132) includes a modem unit.
8. A computerized television apparatus as defined in claim 6, wherein the display unit (102) comprises a display surface (250) which is substantially rectangular, said given diagonal dimension being a diagonal measurement (252) of the display surface (250).
9. A computerized television apparatus as defined in claim 1, wherein said video path (106) comprises a

display controller (12) said third display signal being indicative of a display signal selected from the group consisting of the first display signal and the second display signal.

10. A computerized television apparatus as defined in claim 1, wherein said video path (106) comprises a switch, wherein said switch is a video mixer (16).

11. A computerized television apparatus as defined in claim 1, wherein said video path (106) comprises a processing unit (300) said processing unit being operative to process the first display signal and the second display signal to derive the third display signal, the third display signal being indicative of a display signal that is a combination of the first display signal and the second display signal.

12. A computerized television apparatus as defined in claim 1, wherein said computing device (104) comprises:

- a central processor (4);
- a memory unit coupled to said central processor, said memory unit comprising at least one program element (8) suitable to be executed by said central processor (4).

13. A computerized television apparatus as defined in claim 9, wherein said program element (8) is operative for generating a display signal indicative of a web page when executing on said central processor (4).

14. A computerized television apparatus as defined in claim 1, wherein said display unit (102) comprises a cathode ray tube.

15. A computerized television apparatus comprising a fast boot-up computing device (104) for generating a

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display signal, said fast boot-up computing device having an output for releasing said display signal, said fast boot-up computing device including:

- a plurality of hardware elements;
- an initial program loader unit comprising a data structure including a plurality of data elements associated to respective hardware elements;
- a plurality of program elements associated to respective hardware elements, said program elements being adapted to cooperate with selected ones of the hardware elements;

said fast boot-up computing device being operative to process the initial program loader unit to invoke the program elements associated to the respective data elements, said fast boot-up computing device being operative to boot-up said computerized television apparatus.

16. A computerized television apparatus as defined in claim 15, wherein said plurality of hardware elements form part of a hardware platform, said fast boot-up computing device being operative to boot-up computerized television apparatus without searching said hardware platform.

17. A computerized television apparatus as defined in claim 15, wherein said plurality of data elements is pre-determined.

18. A computerized television apparatus as defined in claim 15, wherein at least one hardware element is selected from the set consisting of a processor, a peripheral device and a memory device.

19. A computerized television apparatus as defined in claim 15, wherein said display signal is a first display signal, said computerized television apparatus further comprising :

- a video path (106) having

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- 5
- a) a first input (110) coupled to said computing device (104) for receiving the first display signal;
- b) a second input (108) for receiving a second display signal derived from a television signal;
- c) an output (140) for releasing a third display signal;
- 10 - a display unit (102) having an input coupled to the output (140) of said video path, said display unit being operative for displaying a display image derived from said third display signal.
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15 20. A computerized television apparatus as defined in claim 19, wherein at least one of said data elements is indicative of a part coupled to said computing device.

20 21. A computerized television apparatus as defined in claim 19, wherein said display unit (102) has a given diagonal dimension (252) and is characterized in having a dot pitch in an range from about 0.0008528 times the given diagonal dimension (252) to about

25 0.001016 times the given diagonal dimension (252).

30 22. A computerized television apparatus as defined in claim 19, wherein said display unit (102) has a given diagonal dimension (252) and is characterized in having a dot pitch in an range from about 0.0008528 times the given diagonal dimension (252) to about

0.0009473 times the given diagonal dimension (252).

35 23. A computerized television apparatus as defined in claim 19, wherein said display unit (102) has a given diagonal dimension (252) and is characterized in having a dot pitch of about 0.000862 times said given diagonal dimension (252).